

The xanthation of cellulose. II. The xanthation of
simple carbohydrates and of cellulose. P. M. Cherkas-
skaya, A. B. Pakshver, and V. A. Kargin. *U.S.S.R.* 26, 277-83(1953)(Engl. translation);
Zhur. *Priklad. Khim.* 26, 311-29(1953).—See C.A. 48,
9682i.
H. U. H.

1/2

The xanthation of carbohydrates and cellulose. P. M. Cherkasskaya, A. B. Pakshver, and V. M. Kargin. *Chem. Abstr.* 1953, 47, 8228r.

The xanthation of sucrose (I) and an alk.-sol. degraded hydrate cellulose (D. P. 82) (II) from viscose rayon in a homogeneous medium and of alkali cellulose (33.8% cellulose, 15.0% NaOH, and 51.2% H₂O) (III) in a heterogeneous medium was studied. Xanthation was carried out in sealed tubes, and the products analyzed potentiometrically (C.A. 31, 12014) and iodometrically. The formation of I xanthate in moles/hr. is defined by k_1/CS_2 up to a degree of esterification (IV) of 12%, and of II xanthate by k_2/CS_2 up to a IV of 18%. The xanthation of III up to 18% IV is considered as a pseudomonomol. reaction, $k_3 = 2.3/t \log 1/(1-x)$ where x = moles $CS_2/C_6H_{10}O_5$ in the III xanthate, and t = time in hrs. In the xanthation of 0.575 moles I the moles of bound CS_2 for a ratio of I: CS_2 :NaOH (V) of 1:1:3 and at 40° were 0.31, 0.32, 0.22, and 0.15 for 1, 3, 6, and 9 hrs.; for a 1:4:4 V and at 20° the values were 0.51, 0.71, 0.92, 0.53, 0.30, and 0.23 for 18, 24, 48, 96, 120, and 168 hrs.; at 40°, 0.40, 0.75, 0.99, and 0.58 for 1, 3, 6, and 9 hrs.; for a 1:12:12 V and at 20°, 0.40, 0.64, 0.9, 1.03, 1.2, and 0.89 for 34, 48, 96, 120, 168, and 360 hrs.,

and at 40°, 0.22, 0.48, 0.93, 1.24, and 0.52 for 1, 3, 6, 9, and 18 hrs. In the xanthation of 0.575 mole I (V = 1:1:2), the moles of I xanthate, Na₂S, Na₂CS₃, CS₂, and NaOH at 20° were 0.061, 0.003, 0.0015, 0.402, and 1.067 for 3 hrs., 0.156, 0.006, 0.0030, 0.422, and 0.987 for 6 hrs., 0.210, 0.009, 0.0045, 0.364, and 0.919 for 9 hrs., 0.245, 0.012, 0.006, 0.325, and 0.871 for 12 hrs., and 0.208, 0.018, 0.009, 0.265, and 0.791 for 18 hrs.; at 40°, 0.085, 0.0025, 0.0015, 0.495, and 1.270 for 3 hrs., 0.15, 0.0051, 0.0010, 0.471, and 1.027 for 6 hrs., 0.24, 0.0104, 0.0021, 0.436, and 0.842 for 9 hrs., 0.275, 0.0158, 0.0033, 0.299, and 0.838 for 12 hrs., and 0.299, 0.0270, 0.0059, 0.299, and 0.769 for 18 hrs.; and at 40°, 0.15, 0.006, 0.0007, 0.440, and 1.117 for 3 hrs., 0.25, 0.012, 0.0012, 0.347, and 0.880 for 6 hrs., 0.425, 0.024, 0.0028, 0.244, and 0.747 for 9 hrs., 0.450, 0.0348, 0.0033, and 0.599 for 12 hrs., and 0.409, 0.0275, 0.0028, 0.168, and 0.402 for 18 hrs. In the xanthation of 0.575 mole II, II: CS_2 :NaOH = 1:3:3, the moles II xanthate, Na₂S, Na₂CS₃, CS₂, and NaOH at 15° were 0.036, 0.0035, 0.001, 0.890, and 2.447 for 1 hr., 0.090, 0.010, 0.002, 0.850, and 2.306 for 2 hrs., 0.099, 0.017, 0.003, 0.806, and 2.147 for 3 hrs., 0.126, 0.020, 0.004, 0.781, and 2.060 for 4 hrs., and 0.150, 0.025, 0.005, 0.761, and 2.260 for 5 hrs.; at 25°, 0.040, 0.006, 0.001, 0.878, and 2.430 for 0.5 hr., 0.080, 0.012, 0.002, 0.890, and 2.390 for 1 hr., 0.115, 0.018, 0.003, 0.783, and 2.295 for 1.5 hrs., 0.143, 0.024, 0.004, 0.750, and 2.237 for 2 hrs., and 0.185, 0.036, 0.006, 0.001, and 2.153 for 3 hrs.; and at 35°, 0.050, 0.005, 0.0013, 0.877, and 2.431 for 0.25 hr., 0.10, 0.010, 0.0025, 0.818, and 2.325 for 0.5 hr., 0.143, 0.015, 0.0038, 0.771, and 2.300 for 0.75 hr., 0.175, 0.020, 0.005, 0.735, and 2.250 for 1 hr., and 0.210, 0.037, 0.010, 0.679,

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and 2.143 for 2 hrs. In the xanthation of III (III:CS₂:NaOH = 1.0:1.0:1.8), the moles CS₂/C₆H₅O₂ were, for 30 and 40°, 0.058 and 0.144 for 0.25 hr., 0.115 and 0.283 for 0.5 hr., 0.168 and 0.353 for 0.75 hr., and for 20 and 30° 0.091 and 0.22 for 1 hr., 0.182 and 0.39 for 2 hrs., 0.287 and 0.51 for 3.0 hrs., and 0.469 and -- for 6 hrs. In the xanthation of I (V = 1:1:2), $k_1 \times 10^3$ = 12.3, 62.3, and 281.0 for 20, 30, and 40°, k_{NaOH} 10^3 = 0.114, 0.49, and 2.03 for 20, 30, and 40°, and k_{NaOH,CS_2} 10^3 = 0.076, 0.16, and 0.44 at 20, 30, and 40°; in the xanthation of II (II:CS₂:NaOH = 1:3:8), $k_1 10^3$ = 4.2, 11.0, and 27.1 for 15, 25, and 35°, $k_{NaOH} 10^3$ = 0.78, 1.82, and 3.22 for 15, 25, and 35°, and $k_{NaOH,CS_2} 10^3$ = 0.25, 0.62, and 1.10 for 15, 25, and 35°; in the xanthation of III (III:CS₂:NaOH = 1:1:1.8), $k_1 10^3$ = 11.0, 24.5, and 64.3 for 20, 30, and 40°, and in the reaction of CS₂ with NaOH (1:2), $k_{NaOH} 10^3$ = 0.175, 0.62, and 1.65 for 20, 30, and 40°, and $k_{NaOH,CS_2} 10^3$ = 0.094, 0.162, and 0.365 for 20, 30, and 40°.

John Lake Kears

BALEZIN, Stepan Afanas'yevich; CHERKASSKAYA, P.M., redaktor; LUR'YE, M.S.,
tekhnicheskiiy redaktor

[A practical manual of physical and colloidal chemistry] Rukovodstvo
k prakticheskim zaniatiyam po fizicheskoi i kolloidnoi khimii. Izd.
2-oe, ispr. i dop. Moskva, Gos. nauchno-tekhn. izd-vo khim. lit-ry,
1956. 232 p. (MLRA 10:3)
(Chemistry, Physical and theoretical) (Colloids)

AMBLIN, Anatoliy Gavrilovich; ~~CHERKASSKAYA, P.M.~~ redaktor; LUR'YE, M.S.,
tekhnicheskiiy redaktor; POGUDIN, P.V., tekhnicheskiiy redaktor

[Production of sulfuric acid] Proizvodstvo sernoi kisloty. Moskva,
Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1956. 363 p. (MLRA 9:11)
(Sulfuric acid industry)

CHERKASSKAYA, P.M., redaktor; LUR'YE, M.S., tekhnicheskiy redaktor.

[Fatigue of high polymers] Uсталost' vysokopolimerov. Moskva, Gos.nauchno-tekhnizd-vo khim.lit-ry, 1957. 134 p. (MIRA 10:11)

1. Nauchno-issledovatel'skii institut shinnoi promyshlennosti.
(Macromolecular compounds)

L 21792-65 EWT(m)/EPF(o)/EPF(n)-2/EPR/ENP(j)/T/ENP(t)/ENP(b) Pc-4/Pr-4/Ps-4/
 Pu-4 IJP(c) JD/JG/DJ/RM
 ACCESSION NR: AT5001380
 S/2917/64/000/283/0094/0107

AUTHOR: Cherkasskaya, P. M. (Candidate of technical sciences)

TITLE: A study of certain antifriction polymer coatings

B+1

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodoro-
 zhного transporta. Trudy, no. 283, 1964. Plastmassy kak antifriktsionnyye
 materialy dlya zheleznodorozhnogo transporta (Plastics used as antifriction
 materials for railroad transportation), 94-107

TOPIC TAGS: polymer coating, antifriction coating, bearing design,
 polycaprolactam, polyamide, polymer film, resin filler, graft resin

ABSTRACT: Polycaprolactam, modified polyamide resin, polycarbonate, and graft
 resin were tested in the form of films 250-300 m thick for their antifriction
 properties under laboratory conditions using MI-IM friction machines and loads
 of 6 - 80 kg/cm². Axle oil L was used as the lubricant between the polymer and a
 polished steel roller. The lowest friction coefficients were found in the system
 graft resin - oil - steel, and this resin was therefore studied in more detail.
 It was found that the introduction of fillers such as molybdenum disulfide,

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27

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ACCESSION NR: AT5001360

graphite, and zinc dust improved the antifriction properties of the graft resin composition, and that heat treatment also had a favorable effect on the antifriction and physicomachanical properties of the coatings. On the basis of these results, compositions based on graft resin are recommended for use as antifriction coatings on bearings of rolling stock. "R. N. Protasova participated in the experimental part of the work." Orig. art. has: 7 figures and 1 table.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta, Moscow (All-Union Scientific Research Institute for Railroad Transportation)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO REF SOV: 012

OTHER: 005

Card 2/2

(A) L 11151-66 EWT(m)/T DJ
ACC NR: AP6000337

SOURCE CODE: UR/0286/65/000/021/0036/0036

AUTHORS: Bilik, Sh. M.; Tsurkan, I. G.; Cherkasskaya, P. M.

ORG: none

TITLE: Oil for working in a friction couple of steel-polymer. Class 23, No. 176027
[announced by Central Scientific Research Institute of Railroad Transportation
(Tsentral'nyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 36

TOPIC TAGS: steel, polymer, friction

ABSTRACT: This Author Certificate introduces the application of mineral oil with
an admixture of phenyl- β -naphthylamine as an oil for breaking in a friction couple
of steel-polymer.

SUB CODE: 11/ SUBM DATE: 07Dec63

Card 1/1

UDC: 621.001

ZASHKVARA, V.G.; SENICHENKO, S.Ye.; GHERKASSKAYA, E.I.

Interaction of coal granules during coking. Koks i khim. no.4:8-12
'61. (MIRA 14:3)

1. Khar'kovskiy nauchno-issledovatel'skiy uglekhimicheskiy institut.
(Coal—Carbonization)

CHERKASSKAYA, V. M.

Peculiarities in the Occurrence and Development of Intramass Convective Precipitations for Various Synoptic Positions - 1955

A study of the principal shower-forming factors and of the role of each of them in the formation of intramass precipitations showed that their most favorable combinations are: (1) great magnitude of convective instability characterized by mean deviation of the curve of state from the curve of stratification on the aerological diagram (emagram) from the condensation level to the level 500 mb at 2 - 3° and larger; (2) thickness of the convective unstable layer reaching 80-100 mb and more; (3) large value of the arising convective instability. According to the problem of the significance of the humidity for the development of intense thermal convection the following have been shown: (1) specific humidity at the earth in the early hours of the morning of 7.0 to 8.0 grams/kilograms in the case of daytime heating to 20-25° (except in the rear of a cyclone); (2) presence of vertical gradient of specific humidity in the layer up to 1.5 km not exceeding 1.5-2.0 grams per kilogram for 100 mb variation of pressure;

1.

(3) values of relative humidity up to height of 3 km not lower than 60%, the most favorable being 70-80% humidity (for values lower than 40% the possibility of the formation of cumulonimbus clouds is excluded). (RZhGeol. No. 4, 1955) Tr. Tsent. in-ta prognozov, No. 31, 1954, 36-106

S0: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

2.

CHERKASSKAYA, V.M.

Showers in the ridge of high pressure during the 12th and 13th
August, 1954. Trudy TSIP no. 52:57-66 '57. (MLBA 10:8)
(Rain and rainfall)

CHERKASSKAYA, Valentina Mikhaylovna; NEKHLIUDOVA, A.S., red.; SAVCHENKO,
Ye.V., tekhn.red.

[On what does the weather depend?] Ot chego zavisit pogoda.
Moskva, Izd-vo "Znanie," 1958. 28 p. (Vsesoiuznoe obshchestvo
po rasprostraneniю politicheskikh i nauchnykh znaniy. Ser. 8,
vyp. 2, no.27) (MIRA 12:2)

(Weather)

COUNTRY : USSR
CATEGORI : Cultivated Plants. Industrial. Oleiferous. M
Sugar.
ARS. JOUR. : RZhBiol., No. 3, 1959, No. 11018
AUTHOR : Cherkasskiy, M. M., Cherkasskaya, Ye. A.
INST. : -
TITLE : The Most Important Cotton Plant Varieties in Capitalist
Countries.
ORIG. PUB. : Sb. in. s.-kh. inform., 1958, No. 2, S-13.
ABSTRACT : A survey of the principal varieties cultivated in USA,
Peru, India, Egypt, Syria, Greece and a number of other
countries.

CARD: 1/1

-35-

CHERKASSKAYA, E.I.

ARONOV, Samuil Grigor'yevich; BAUTIN, Ivan Grigor'yevich; VOLKOVA, Zoya Andreyevna; VOLOSHIN, Arkhip Il'ich; VIROZUB, Yevgeniy Vladimirovich; GABAY, Lev Izrailevich, DIDENKO, Viktor Yefimovich; ZASHKVARA, Vasily Grigor'yevich; IVANOV, Pavel Aleksandrovich, KUSTOV, Boris Iosifovich [deceased]; KOTOV, Ivan Konstantinovich; KOTKIN, Aleksandr Matveyevich; KOMANOVSKIY, Maksim Semenovich; LEYTES, Viktor Abramovich, MOROZ, Mikhail Yakovlevich; NIKOLAYEV, Dmitriy Dmitriyevich. OBUKHOVSKIY Yakov Mironovich; RODSHTEYN, Pavel Moiseyevich; SAPOZHNIKOV, Yakov Yudovich, SENICHENKO, Sergey Yefimovich; TOPORKOV, Vasilii Yakovlevich; CHERMNYKH Mikhail Sergeyevich; ~~CHERKASSKAYA, Esfir'~~ Ionovna, SHVARTS, Semen Aronovich; SHERMAN, Mikhail Yakovlevich; SHVARTS, Grigoriy Aleksandrovich; LIBERMAN, S.S., redaktor izdatel'stva; ANDREYEV, S.P., tekhnicheskiiy redaktor

[Producing blast furnace coke of uniform quality; a collection of articles for the dissemination of advanced practices] Poluchenie domennogo koksa postoiannogo kachestva; sbornik statei po obmenu peredovym opytom. Khar'kov, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 300 p. (MLRA 9:8)

(Coke industry)

126. BLENDING OF COAL CHARGES IN MIXING MACHINES. Zakharenko, V. I.
Chernobayeva, P. I. and V. I. Zakharenko. (Kislovodsk. (Coke. Chem. Ind. USSR).
Feb. 1957. 13-197. Experimental results of the use of the machine in the
machines used. The maintenance of the machine is simple and the
type, but is more bulky and expensive than the machine used.

3

МЕРН', М.Я.; ПОДГАЙЕТСКАЯ, М.Г.; ЧЕРКАССКАЯ, Ye.I.; ВОЛОВИК, Ya.K.

Para-aminosalicylic acid therapy of tuberculosis of the skin. Vest.
ven.1 derm. no.5:53 S-0 '53. (MLRA 6:12)

1. Iz Ukrainского instituta tuberkuleza,
(Skin--Tuberculosis) (Para-aminosalicylic acid--Therapeutic
use)

CHERKASSKAYA, Ye.I.; ALEKSANDROV, O.A.; KANEVSKIY, Ye.I.

Brief news. Sov. zdav. 13 no.4:61-63 J1-Ag '54. (MLRA 7:9)
(STATISTICS) (PUBLIC HEALTH)

CHERNOMAY, Ye. I.

CHERNOMAY, Ye. I.: "The methodology and results of studying the medical service to the population." Acad Med Sci USSR. Moscow 1955. (Dissertation for the Degree of Candidate in Medical Sciences).

Source: Knizhnaya letopis' No. 26 1956 Moscow

VEYNEROV, I.B., prof.; CHERKASSKAYA, Ye.I.

Reaction to tuberculin in antibacterial treatment of tuberculosis
of the skin. Vest.derm.i ven. no.12:30-33 '61. (MIRA 15:1)

1. Iz kliniki tuberkuleza kozhi (zav. - prof. I.B. Veynerov)
Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza
imeni akad. F.G. Yanovskogo (dir. - dotsent A.S. Mamolat).
(SKIN--TUBERCULOSIS) (TUBERCULIN)

OVCHAROV, V.K.; CHERKASSKAYA, Ye.I. (Moskva)

Scientific workers in institutions of higher education and scientific research institutions in the system of the Public Health Ministry of the U.S.S.R.; personnel statistics. Sov. zdrav. 22 no.9:21-27 '63. (MIRA 17:4) *

1. Iz Instituta organizatsii zdoravookhraneniya i istorii meditsiny imeni N.A. Semashko (dir. P.I. Kal'yu), Moskva.

ACCESSION NR: AP4041802

S/0080/64/037/007/1620/1621

AUTHOR: Lyubomilov, V. I.; Cherkasskaya, Ye. L.

TITLE: Synthesis of trioxane

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 7, 1964, 1620-1621

TOPIC TAGS: trioxane, synthesis, reaction condition, conversion, process, formaldehyde

ABSTRACT: A study was made of the yield and rate of formation of trioxane made by reacting concentrated aqueous solutions of formaldehyde and H_2SO_4 and distilling the trioxane fraction. Metal-free formalin containing 58-62% formaldehyde was reacted in a flask with a 15 theoretical plate distillation column. Trioxane was extracted with methylene chloride from the trioxane fraction (boiling at 90-92C and higher) which also contained water and formaldehyde. Results are summarized in the enclosed figure. The amount of trioxane formed increased with increased distillation rate, reaching a maximum of 18.4 gm/hr (line 1, in figure 1 of the enclosure) (corrected to 17.5 gm/hr for average 60% formaldehyde concentration and 2.25% H_2SO_4), but the amount of trioxane in the fraction decreased (line 2). The

Card 1/3

ACCESSION NR: AP4041802

yield of trioxane was over 90% based on formaldehyde consumed at about 70% conversion. Orig. art. has: 1 figure.

ASSOCIATION: None

SUBMITTED: 24Dec62

DATE ACQ: 00

ENCL: 01

SUB CODE: GC, OC

NO REF SOV: 001

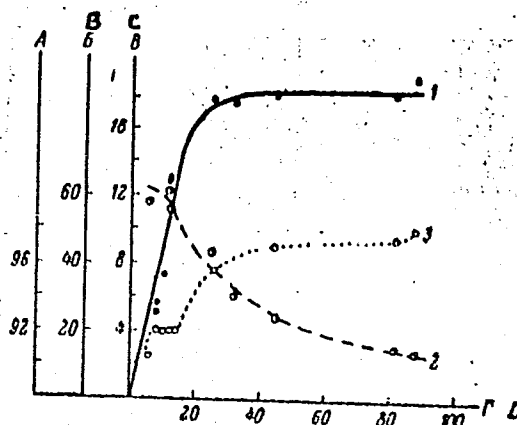
OTHER: 008

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ACCESSION NR: AP4041802

ENCLOSURE: 01

Fig. 1. Relationship between the amount of trioxane obtained, trioxane content in the fraction and boiling point, and the distillation rate
 A--boiling temperature (C),
 B--Trioxane content in the fraction (%)
 C--Amount of trioxane obtained from 100 gm. CH_2O (gm/hr)
 D--Distillation rate of fraction per 100 gm. of 60% formalin (gm/hr)
 1--amount of trioxane obtained
 2--trioxane content in fraction
 3--boiling temperature (C)



Card 3/3

CHENKASSKIY, A.

Current forms of promoting advanced practices. NPI no.7:17
'64.

(MIRA 17:11)

1. Starshiy inzh. Doma nauchno-tekhnicheskoy propagandy Donetskogo
soveta narodnogo khozyaystva.

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
CHERKASSKIY, A. A. PROCESSES AND PROPERTIES INDEX Laboratory control of β-naphthol production at the Frunze Dorkhim works. V. V. Kozlov and A. A. Cherkasskiy. <i>Anilinokhimiya</i> Prom. 4, 156-66(1934).— A general method of analysis is described. C. B.																			
COMPOS. ELEMENTS ANAL. DATA RESEARCH LITERATURE CLASSIFICATION																			

CHERKASSKIY, A. N.

Relation between the degree of hydrolysis and azotization activity of diazonium compounds. A. A. Cherkasskiy. *Org. Chem. Ind.* (U. S. S. R.) 5, 322-3 (1938). The hydrolysis of 22 diazonium salts in water at various concns. was studied by the potentiometric method with a glass electrode. The series of the diazonium compds. when arranged in the order of increasing degree of hydrolysis corresponds almost completely with the series of these compds. arranged in the order of increasing diazotization activity by Schottissen (C. A. 28, 1227) and Filippichev and Cherkalin (C. A. 29, 5087). In agreement with these investigators the degree of hydrolysis and azo coupling is influenced by the concn. and the nature and position of the neg. groups in the nucleus. Twenty references.

Chas. Blanc

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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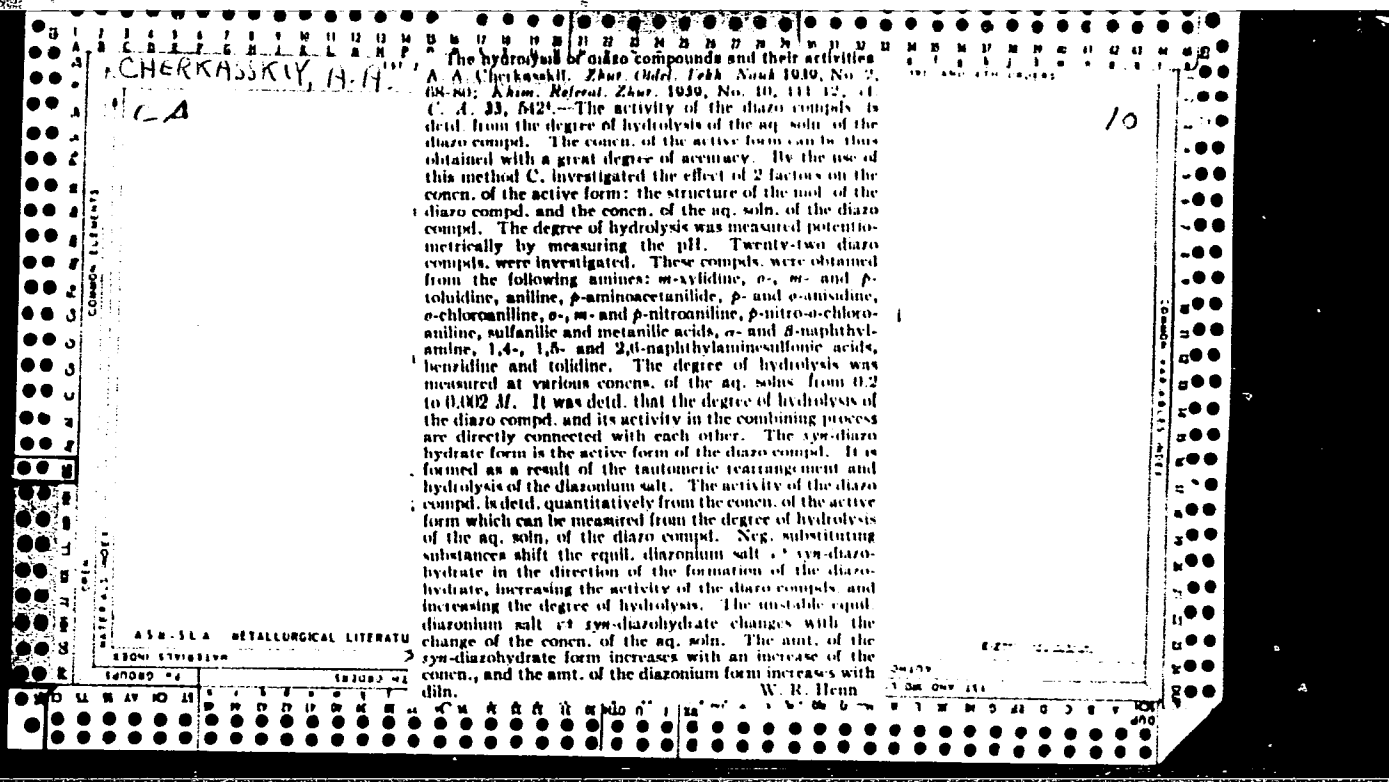
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KRESHKOV, A.P.; BORK, V.A.; MYSHLYAYEVA, L.V.; NESSONOVA, G.D.;
CHERKASSKIY, A.A., redaktor; LUR'YE, M.S., tekhnicheskii
redaktor

[Analysis of silicon organic compounds] Analiz kremniorgani-
cheskikh soedinenii. Moskva, Gos. nauchno-tekhnicheskoe izd-vo
khimicheskoi lit-ry, 1954. 255 p. (MIRA 8:1)
(Silicon organic compounds)
(Chemistry, Analytical)

SEVERNEV, M.M.; DOMAN'KOV, V.M.; IODO, I.I.; CHERKASSKIY, A.G.

Substantiation for the tractor maintenance system. Sbor. rab. GOSNITI
no.17:8-18 '62. (MIRA 17:9)

CHEKALIN, Mikhail Aleksandrovich; ~~CHERKASSKIY, A.A.~~ redaktor; LUR'YE, M.S.,
tekhnicheskiy redaktor

[Chemistry and technology of organic dyes] Khimiya i tekhnologiya
organicheskikh krasitelei. Moskva, Gos. nauchno-tekhn. izd-vo
khim. lit-ry, 1956. 575 p. (MLRA 10:2)
(Dyes and dyeing--Chemistry)

LASTOVSKIY, Rostislav Petrovich; VAYNSHTEYN, Yudif' Isaakovna;
~~CHERKASSKIY, A.A., red.~~; ZAZUL'SKAYA, V.F., tekhn.red.

[Technical analysis in the manufacture of dyes and intermediate products] Tekhnicheskii analiz v proizvodstve pro-mezhutochnykh produktov i krasitelei. Izd.3. Moskva, Gos.nauchno-tekhn.izd-vo khim. lit-ry, 1958. 495 p. (MIRA 12:1)
(Dyes and dyeing--Chemistry)

KOSHELEVA, G.N.; CHERKASSKIY, A.A.

Quality of indicators. Report No.2: Azo and nitro indicators.
Trudy IREA no.22:110-114 '58. (MIRA 14:6)
(indicators and test papers)

CHERKASSKIY, A.A.; VINOGRADOVA, N.P.

Quantitative determination of dianthrimide. Zav.lab.27 no.3:279-282 '61.
(MIRA 14:3)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i
krasiteley im. K. Ye. Voroshilova.
(Anthraquinone)

S/063/61/006/002/003/004
A105/A129

AUTHOR: Cherkasskiy, A. A.

TITLE: Scientific and technical conference on modern methods of analytical control in the chemical industry

PERIODICAL: Zhurnal vsesoyuznogo khimicheskogo obshchestva, im. D. I. Mendeleyeva, v. 6, no. 2, 1961, 224 - 226

TEXT: The third scientific and technical conference on modern methods of analytical control in the chemical industry took place on November 15 - 18, 1960. It was convened by the analytical department of the All-Union Chemical Society imeni D. I. Mendeleyev. The conference was dedicated to the problems of analytical control in the industry of organic semi-finished products and dyes, chemico-pharmaceutical substances and reagents. Over 500 representatives of 260 organizations in Moscow and 72 representatives of other cities took part. A total of 45 papers was presented. The development of electrochemical, optical and chromatographic methods of analysis and analytical control is stressed. A. A. Chemerisskaya (VNIKhFI) read on the use of paper chromatography in the chemico-pharmaceutical industry. T. M. Seleznev (Dorogomilovskiy khimicheskiy zavod-

Card 1/5

S/063/61/006/002/003/004
A105/A129

Scientific and technical conference on modern methods..

Dorogomilovo Chemical Combine) discussed the use of chromatography on paper in the production of intermediate products in the aniline-dye industry. Chromatographic methods of production control of certain vat dyes (Ye. V. Sokolova and L. V. Merzloukhova-NIOPiK), many anthraquinone dyes (G. I. Konstantinova, Kemerovskiy anilinokrasochnyy zavod - Kemerovo Aniline-Dye Plant), and azo-dyes (ie. T. Voronova, Derbenevskiy khimicheskiy zavod - Derbenevsk Chemical Combine) were reported on. N. V. Demina, G. M. Sal'nikova, et al. (Research Institute in Dzerzhinsk) and D. A. Vyakhirev (NIKh of the Gor'kiy State University) discussed the work carried out in the field of gaseous liquid chromatography used in the determination of the purity of monomers for the production of polymer materials: chlorovinyl, ethylene, propylene, divinyl, etc. V. I. Kalmanovskiy, M. M. Fiks, Ya. I. Yashin, A. N. Burov (Dzerzhinskiy Branch of the OKB avtomatiki Designing Bureau for Automation) reported on new work in the field of control based on the method of gas-liquid chromatography, on ionizing methods for the determination of micro-mixtures of gases and vapors and the use of ionizing flame detectors, on the special adjustments for gas chromatograms ensuring the determination of low admixtures of hydrocarbon gases, and also on the application of capillary chromatography in the analysis of hydrocarbons. L. D. Komissarenko (Dorogomilovo Chemical Combine) reported on photocolormetric methods de-

2/5

S/063/61/006/002/003/004

Scientific and technical conference on modern methods.. A105/A129

veloped for determining the admixtures of the primary amines in the corresponding acyl derivatives, based on the reactions of diazotation and azo-combination and on the photolorimetric methods of control in the production of dyes. B. I. Kissin and Ye. N. Kurakin discussed the methods developed in the laboratories of the Zavolzhskiy anilinokrasochnyy zavod (Volga Aniline-Dye Plant) for the determination of admixtures of m-phenylenediamine in aniline, aniline in o-toluidine and the content of o-toluene-sulfoacid in the reaction mass after the sulfonation of toluene, based on the reactions of azo-combination, formation of colored indophenols and transformation of o-toluenesulfoacid into the colored derivative of dinitrostilbenedisulfoacid. The photolorimetric method has been successfully used for the determination of the content of small quantities of accelerators of rubber vulcanization (captax, altax, thiuram, diphenylguanidine) in the air of plant buildings (R. V. Khokhlova, Dorogomilovo Chemical Combine). N. A. Izmaylov, N. P. Dzyuba and V. P. Georgiyevskiy (Khar'kov NIKhFI) reported on the classification of organic substances according to their behavior in acid-alkaline titration in non-aqueous media and on the use of this method for the analysis of mixtures of medicinal preparations, such as pyrimidin, analgin with barbiturates, aspirin with caffeine, with phenacetine, etc. The titration method in non-aqueous media is often used in the aniline-dye in-

Card 3/5

S/063/61/006/002/003/004

Scientific and technical conference on modern methods.. A105/A129

dustry for the control of many production stages of the herbicide 2,4-dichlorophenoxyacetic acid (Ye. A. Gribova, NIOPiK). V. F. Degtyarev (Urals Branch of the VNIKhFI) reported on the control of production of chemico-pharmaceutical substances by the conductometric method. An accurate conductometer was developed at the Ural'skiy politekhnicheskiy institut (Urals Politechnical Institute) and put into service. P. N. Smirnov (VNIKhFI) read on the use of the polarographic method of analysis for the determination of many chemico-pharmaceutical preparations, such as a series of steroids. Methods of polarographic analysis of many hydrocarbons and heterocyclic bases from coke-chemical plants have been developed (A. G. Pozdeyeva, VUKhIN). During the conference the instrument-designing industry was criticized. There is a shortage of instruments for physico-chemical control, such as the ЛП-5 (LP-5) and LP-58 type potentiometers, conductometers, polarographs photoelectrocolorimeters of the ФЭК-М (FEK-M) and ФЭК-Н57 (FEK-N57) types, spectrophotometers of the СФ-4 (SF-4) type, etc. Chromatographic paper is of poor quality and its supply is insufficient. The plants located away from the center are poorly supplied with reagents and chemical glassware. There is also a shortage of personnel. The conference has appealed to the State Committee on Chemistry and Automation at the USSR Council of Ministers, and to the Minister of Health of the USSR, to Gosplan of the USSR and the Union Republics

Card 4/5

Scientific and technical conference on modern methods.. S/063/61/006/002/003/004
A105/A129

for general help in securing more apparatus for periodic and continuous automatic control of chemico-technical processes and the production of the required amount and assortment of laboratory equipment for physico-chemical analysis. It also appealed for help to the VkhO administration to emphasize the training professional personnel. In response, the VkhO imeni D. I. Mendeleyev has announced its plans for another conference on the methods of analysis of industrial waste waters to take place in 1961.

Card 5/5

CHERKASSKIY, A.A.

Conference on the control methods in the organic chemical industry.
Zav.lab.27 no.5:629 '61. (MIRA 14:5)
(Chemistry, Organic---Congresses)
(Chemistry, Analytical)

GADZHIYEV, S.A. (Leningrad, M-70, ulitsa Frunze, dom 1, kv. 5); VORONOV, A.A.;
CHERKASSKIY, A.A.

Observations on the use of the apparatus for artificial circulation (the AIK-59 and AIK-60) under clinical conditions. Grudn. khir. 4 no. 5: 16-20 S-O'62 (MIRA 17:3)

1. Iz kafedry torakal'noy khirurgii i anesteziologii (zav. -- prof. S.A. Gadzhiyev) Leningradskogo instituta usovershenstvovaniya vrachey imeni S.M. Kirova.

CHERKASSKIY, A.A.; MERZLOUKHOVA, L.V.

Determination of impurities on mono-and tetradianthrimides in
dinitrodianthrimide by means of paper partition chromatography.
Zav.lab. 28 no.10:1177-1179 '62. (MIRA 15:10)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov
i krasiteley.
(Anthraquinone) (Paper chromatography)

LYANDE, Yu.V.; CHERKASSKIY, A.A.

Determination of the concentration of cyanuric trichloride.
Zav. lab. 29 no.9:1050-1051 '63. (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov
i krasiteley.

DINABURG, Muka Solomonovich; CHEIKASKEY, A.A., Eds.;

[Photosensitive diazo compounds and their use] Sveto-
chuvstvitel'nye diazosoedineniya i ikh primeneniye. Mos-
skva, Izd-vo "Khimiya," 1964. 255 p. (MIRA 18:1)

LYANDE, Yu.V.; CHERKASSKIY, A.A.

Colorimetric determination of monoethanolamine. Zav.lab. 30 no.12:1446-
1447 '64. (MIRA 18:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut organicheskikh
poluproduktov i krasitel'ov.

GILINSKIY, I.A., kand.tekhn.nauk; CHERKASSKIY, A.Kh., kand.tekhn.nauk, retsenzent; MOSKVIN, M.V., inzh., retsenzent; KOZLOV, V.P., inzh., retsenzent; MASHKOV, G.F., inzh., retsenzent; YAKOVLEV, L.M., inzh., red.; NIKITIN, A.G., red.izd-va; EL'KIND, V.D., tekhn.red.

[Heat, hydraulic, and air engines of rural electric power stations]
Toplovye, gidravlicheskie i vetrianye dvigateli sel'skikh elektrostantsii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1958. 259 p. (MIRA 12:3)
(Air turbines) (Hydraulic turbines) (Electric motors)

CHERKASSKIY, A. Kh.

"Investigation of Admission and Discharge of Steam in the Cylinders of a Steam Engine." Sub 15 Jan 51, Moscow Order of the Labor Red Banner Higher Technical School imeni Bauman

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

CHERKASSKIY, A. Kh.

1. DEMIN, A. V.; CHERKASSKIY, A. Kh.

2. USSR (600)

4. Steam Power Plants

7. "LPU-1" (light steam power plant), Nauka i zhizn', 19, No. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

CHERKASSKIY, A. KH.

USSR/Physics - Steam Engine

May 52

"Dimensionless Relations for Processes of Emptying and Filling of Vessels of Constant and Variable Capacity," A. Kh. Cherkasskiy

"Zhur Tekh Fiz" Vol XXII, No 5, pp 877-879

Analyses known eqs of pressure variation in cylinders of a steam engine and shows that the ratio of steam pressures depends on dimensionless values as time and velocity of vol variation. Received 27 Aug 51.

222T89

CHERKASSKIY, A. Kh.

1. ~~DEMIN, A. V.~~; CHERKASSKIY, A. Kh.

2. USSR (600)

4. Steam Boilers

7. Principle results of testing the LPU-1 steam plant designed by the All-Union Scientific Research Institute for the Mechanization of Agriculture, Mekh. i elek. sel'khoz., No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

CHERKASSKIY, A. N.

DEMIN, A.V.; YELISEYEV, N.N.; KREYNIN, G.V.; MOROZOV, Ye.A.; TSUKERNIK, L.M.;
CHERKASSKIY, A.N.; KOBLYANOV, L.M., redaktor; BALLOD, A.I., tekhn. red.

[Steam power plant LPU-1] Parosilovaia ustanovka LPU-1. Moskva,
Gos.izd-vo selkhoz. lit-ry, 1955. 246 p. (MLRA 9:2)
(Steam power plants) (Rural electrification)

CHERKASSKIY, A. Kh.

DEMIN, A.V., kand. tekhn. nauk; CHERKASSKIY, A.Kh., kand. tekhn. nauk.

SFU-125 steam power plant. Mekh. i elek. sots. sel'khoz. 15 no.1:
41-45 '58. (MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii
sel'skogo khozyaystva.
(Steam power plants)

86135

S/112/59/000/012/077/097
A052/A001

Thermoelectric Generator for Power Supply of Radio Receivers

11 anode batteries by a larger cross-section. Load characteristics for both batteries are given which enable one to judge on their suitability for the power supply of "Родина -52" ("Rodina-52"), "Нобб" ("Nov"), "Искра" ("Iskra"), and others. Filament and anode units can be also used independently (for instance, in automatic control systems). The height of the heat generator with a supporting appliance is 1 m, the greatest diameter of the thermal head is 0.3 m, weight is 8 kg, service time $\geq$ 6,000 hours, heating time is 15 min. X

B.M.M.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

CHERKASSKIY, A. Th., kand. tekhn. nauk

Possibilities for increasing the specific power of semiconductor
thermoelectric generators. Nauch. trudy VIESKH 4:284-291 '59.
(MIRA 13:11)

(Electric generators)

CHERKASSKIY, A.Kh., kand.tekhn.nauk; MAKAROV, B.G., inzh.

VIESKH-IPAN thermoelectric installation. Nauch. trudy VIESKH 6:
197-211 '59. (MIRA 13:12)
(Thermoelectric apparatus and appliances)

47331-65 PSS-2/EWT(1)/EWP(e)/EWT(m)/EWG(m)/EWP(t)/EWP(k)/EWP(z)/EWP(b) 4/8
 Pz 6/Pad/Pf-4 IJP(c) RWH/JD/HW
 ACCESSION NR: AP5010876 UR/0286/65/000/007/0052/0052

AUTHORS: Lidorenko, N. S.; Cherkasskiy, A. Kh.; Adanyan, R. G.; Chuvpilo, A. V.; Savel'yev, G. N.; Shchegolev, I. S.

TITLE: A method for preparing the positive electrode of a nickel zinc storage battery. Glass 21, No. 169620

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 52

TOPIC TAGS: battery, storage battery, electrode

ABSTRACT: This Author Certificate presents a method for preparing the positive electrode of a nickel-zinc storage battery. The method is based on powder metallurgy technology and is designed to decrease the leakage of the battery while it is in storage. The positive (nickel) electrode is coated with a thin layer of metallic silver by chemical means.

ASSOCIATION: none

SUBMITTED: 29 May 63

ENCL: 00

SUB CODE: EE

NO. REF. SOV: 000

OTHER: 000

L 10410-67 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)
ACC NR: AP6029882 SOURCE CODE: UR/0413/66/000/015/0044/0044

AUTHOR: Cherkasskiy, A. Kh. 31

ORG: none

TITLE: Thermocouple. Class 21, No. 184302 14

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 44

TOPIC TAGS: thermocouple, thermistor

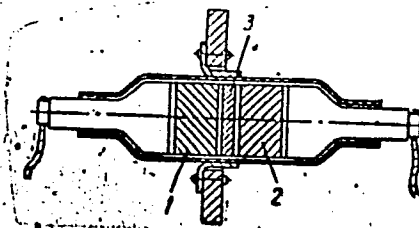
ABSTRACT: This Author Certificate presents a thermocouple of semiconductor arms with p- and n-conductivity. To give the thermocouple the properties of a nonlinear resistance having greater energy sensitivity and smaller inertia than ordinary thermistors, the switching electrode in the form of a thin layer is located between the ends of the positive and negative electrode pins (see Fig. 1). To reduce the dimensions of the device and to decrease the effect of heat losses, the thermoelectric electrodes and the thermosensitive layer are made in the form of coaxial cylinders.

UDC: 621.362.1:621.316.825

L 10410-67

ACC NR: AP6029882

Fig. 1. 1 - semiconductor with p-conductivity;
2 - semiconductor with n-conductivity;
3 - switching electrode



Orig. art. has: 1 diagram.

SUB CODE: 09/ SUBM DATE: 30Sep64

Card 2/2 *byp*

VORONTSOV, Il'ya Il'ich; ~~CHMERKASSKIY~~, A.P., redaktor; LUR'YE, M.S.,
tekhnicheskiy redaktor

[Intermediate products of aniline dye industry] Poluprodukty
anilinokrasochnoi promyshlennosti. Moskva, Gos.nauchno-tekhn.
izd-vo khimicheskoi lit-ry, 1955. 579 p. (MIRA 9:3)
(Aniline dyes)

PA 78100

CHERKASSKIY, A. S.

Feb 1948

USSR/Radio

Antennas - Measurements

Antennas - Controls

"Antenna Meters," A. S. Cherkasskiy, 4 pp

"Radio" No 2

Describes various indicators and meters which are attached to transmitter circuits to guarantee the good quality of transmissions. Fundamentally, they are resonance indicators of the antenna systems.

78188

ID

CHERKASSKIY, A.S.

PUZANOV, N.P.; MEL'NIKOV, L.V.; PAUL', G.P.; CHERKASSKIY, A.S.; TSVYLEV,
A.S.; YAKOBSON, A., redaktor; MUNT'YAN, T., tekhnicheskiy redaktor.

[Course for radiotelegraph operators] Kurs radiotelegrafista.
Moskva, Izd-vo DOSAAF, 1954. 335 p. [Microfilm] (MLRA 7:11)
(Telegraph, Wireless)

17(2,6)

SOV/16-59-9-40/47

AUTHOR: Cherkasskiy, B.L.

TITLE: Characteristic Aspects of Outbreaks of Measles in Rural Areas

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, Nr 9, pp 134-139 (USSR)

ABSTRACT: The article deals with some of the characteristic aspects of measles outbreaks in rural areas and the conditions which govern them. The article is compiled from statistics on the incidence of measles in one of the woodland areas of the Ukraine between 1953 - 1958. There are 4 graphs.

ASSOCIATION: Olevskaya rayonnaya bol'nitsa zhitomirskoy oblasti (Olevsk Rayon Hospital of the Zhitomir Oblast')

SUBMITTED: September 27, 1958

Card 1/1

CHERKASSKIY, B.L. [Cherkas'kyi, B.L.]

Some problems in the control of measles in a rural district.
Report No.2: Complications following measles. Ped., akush. i
gin. 22 no.4:21-23 '60. (MIRA 14:5)

1. Olevskaya rayonnaya bol'nitsa (glavnyy rayonnyy vrach - Ya.S.
Blyakhman) Zhitomirskoy oblasti.
(MEASLES)

CHERKASSKIY, B. I.

Role of the feldsher-midwife center in the control of measles in rural areas. Fel'd. i akush. 26 no. 2:21-24 F '61. (MIRA 14:4)

1. Olevskaya rayonnaya bol'nitsa Zhitomirskoy oblasti.
(MEASLES)

CHERKASSKIY, B.L.

Seasonal factors in measles. Zhur.mikrobiol. epid. i immun. 32
no.4:146-148 Ap '61. (MIRA 14:6)

1. Iz Olevskoy rayonnoy bol'nitsy Zhitomirskoy oblasti.
(ZHITOMIR PROVINCE--MEASLES)

KHAZANOV, M.I.; CHERKASSKIY, B.L.; RYBKINA, N.M.

Dynamics of the epidemic process in whooping cough under conditions of immunoprophylaxis. Zhur.mikrobiol., epid. i immun. 42 no.12:21-28 D '65.

(MIRA 19:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut epidemiologii Ministerstva zdravookhraneniya SSSR i Ministerstvo zdravookhraneniya SSSR.

CHERKASSKIY, B.N., inzh.

Improving the system of back coupling in dynamic braking. Izv.
vys. uch. zav.; gor. zhur. 5 no.6:156-161 '62. (MIRA 15:9)

1. Donetskii ordena Trudovogo Krasnogo Znameni politekhnicheskii
institut. Rekomendovana kafedroy obshchey elektrotekhniki i
elektricheskikh mashin.

(Mine hoisting—Brakes)

TSYM, A.Yu., inzh.; CHERKASSKIY, E.S., inzh.

Shortest path in selecting transposition operators. Vest. svyazi 25
no.8:9-10 Ag '65. (MIRA 18:10)

1. Laboratoriya tresta "Mezhgorsvyaz'stroy".

INOZEMTSEV, Pavel Petrovich; POLOZHIY, Fedor Mikhaylovich; SHNAYDMAN,
Maks Iosifovich; ~~CHERKASSKIY~~, Feliks Borisovich, LYUBOSHCHINSKIY,
Dmitriy Markovich; POZIN, Yevgeniy Zalomanovich; LEVIN, N.F.,
otvetstvennyy redaktor; KOLOMIYTSEV, A.D., redaktor izdatel'stva;
KOROVENKOVA, Z.A., tekhnicheskiy redaktor

[Mechanization of coal loading in mines of the Karaganda Basin]
Mekhanizatsiya navaiki uгля na shakhtakh Karagandinskogo ugol'-
nogo basseina. Moskva, Ugletekhizdat, 1956. 171 p. (MFI 9:9)
(Karaganda Basin--Coal mining machinery)

LYUBOSHCHINSKIY, D.M., inzhener; CHERKASSKIY, F.B., inzhener.

Use of the "Donbass-6" cutter-loader in the Karaganda Basin. Mekh.trud.rab.
10 no.3:17-20 Mr '56. (MLRA 9:7)

(Karaganda Basin--Coal mining machinery)

POLYAKOV, N.S., prof., doktor tekhn. nauk; LICHIN, A.Ya., kand. tekhn. nauk; PALEY, B.Z., inzh.; CHERKASSKIY, F.B., inzh.; NAYEROV, V.R., inzh.

Walking mechanism for moving shields. Shakht. stroi. 5
no.8:10-13 Ag '61. (MIRA 16:7)

1. Dnepropetrovskiy gornyy institut (for Polyakov, Lichin, Nayerov). 2. Institut gornogo dela AN UkrSSR (for Paley, Cherkasskiy). 3. Chlen-korrespondent AN UkrSSR (for Polyakov).
(Mine timbering—Equipment and supplies)

POLYAKOV, N.S.; LICHIN, A.Ya., kand.tekhn.nauk; PALEY, B.Z., inzh.;
CHERKASSKIY, F.B., inzh.; NAYEROV, V.R.

Supply of support elements in development mining with power-operated
shields. Shakht. stroi. 6 no.3:19-20 Mr '62. (MIRA 15:3)

1. Dnepropetrovskiy gornyy institut (for Polyakov, Lichin).
2. Institut gornogo dela AN USSR (for Paley, Cherkasskiy).
3. Dnepropetrovskiy gornyy institut (for Nayerov). 4. Chlen-
korrespondent AN SSSR (for Polyakov).
(Mine timbering) (Precast concrete construction)

TARTAKOVSKIY, B.N., kand. tekhn. nauk; CHERKASSKIY, F.B.

Standard series of rotary bucket excavators in the German
Democratic Republic. Met. i gornorud. prom. no.4:84-86
Jl-Ag '65. (MIRA 18:10)

~~CHERKASSKIY, I. A.~~

External capsule of primary tuberculous pulmonary focus. Probl.
tuberk., Moskva no.1:64-65 Jan-Feb 1953. (CIML 24:2)

1. Of the Department of Pathological Anatomy (Head -- Prof. V. D.
Tsinkerling), Leningrad Sanitary Hygienic Medical Institute (Director
-- Prof. D. A. Zhdanov, Corresponding Member AMS USSR).

LEREDEVA, N.F.; CHERKASSKIY, I.A.

Neurinoma of the larynx. Vest. oto-rin. 16 no.6:75-76 N-D '54.
(MLRA 8:1)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta po bolez-
nyam ukha, gorla, nosa i rechi (dir.-prof. I.A.Lopotko, nauchnyy
rukovoditel' -deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR
prof. V.I.Voychek)

(LARYNX, neoplasms
neurinoma, diag. & surg.)

CHERKASSKIY, L.A.

Structure of experimental tumors of the bone in rabbits. Vop.onk
1 no.1:16-24 '55. (MLRA 8:10)

1. Iz laboratorii opukholevykh shtammov (zaveduyushchaya prof.
N.A.Krotkina) Instituta onkologii AMN SSSR (direktor--chl.-korr.
AMN SSSR prof. A.I.Serebrov, Nauchnyy konsul'tant--chl.-korr.
AN SSSR, deystv. chl. AMN SSSR. z.d.n., prof. N.N.Petrov) Leningrad.
36, Nevskiy prospekt, 128, kv.3.
(SARCOMA, OSTEOGENIC, experimental)
(NEOPLASM, experimental,
sarcoma, osteogenic)

CHERKASSKIY, L.A. (Leningrad, 36, Nevskiy prospekt, d.128, kv.3)

~~CHERKASSKIY, L.A.~~
A form of precancer of the rectum. Vop.onk. 1 no.3:41-50 '55.

(MIRA 10:1)

1. Iz patomorfologicheskoy laboratorii (zaveduyushchiy - chlen-korrespondent AMN SSSR prof. M.F.Glazunov) Instituta onkologii AMN SSSR (direktor - chlen-korrespondent AMN SSSR prof. A.I.Serebrov)
(RECTUM, neoplasms,
precancer)

CHERKASKIY, L.A.

✓ Bone change in rats after the injection of radioactive strontium. L. A. Cherkaskiy (Leningrad Inst. Ear, Nose, Throat and Speech, and Centr. Rentgeno-Radiol. Inst., Ministry Health U.S.S.R.). *Voprasy Onkologii* 2: 1950. (1950).—Sr⁹⁰ was used as the source of β irradiation. Rats were injected with 0.25–9.0 microcuries/g of animal wt. Some types of general bone changes developed in all rats but at different time periods, depending upon the duration of expt., age and individual biocharacteristics of the animals. Necrobiosis and necrosis of the hemopoietic cells and of the osteocytes were among the early appearing symptoms. The damage extended over all the hemopoietic elements of the bone marrow, in extensive areas of the metaphyses sections of the tubular bone structures and of the facial skull bones in particular. In some cases the hemopoietic elements of the metaphysal sections only were destroyed; in other cases small foci of necrosis of bone marrow appeared along the entire length of the bone, and the few osteocytes completely disappeared. After the damage the process of fibrosis may set in, not only removal of the dead tissues, but as irradiation-stimulated connective tissue proliferation. These fibrous changes are localized most frequently in the metaphyses. The type of the newly developed connective tissue may differ in different

the same animal. The changes which occur and the regeneration processes which take place in bone tissue and bone marrow are described in detail. B. 10

CHERKASSKIY, L.A. (Leningrad, 36, Nevskiy pr., d.128, kv. 3)

Cancer of the hard palate and gums induced in white rats by internal irradiation [with summary in English]. Vop.onk. 2 no.5:614-617 '56.
(MIRA 10:2)

1. Iz laboratorii eksperimental'noy onkologii (zav. - chlen-korrespondent AMN SSSR prof. L.M.Shabad) Instituta onkologii AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. A.I.Serebrov) i patologo-anatomicheskoy laboratorii (zav. - doktor meditsinskikh nauk L.V. Funshteyn) Tsentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta Ministerstva zdravookhraneniya SSSR (dir. prof. M.N.Pobedinskiy).

(NEOPLASMS, exper.

radiostrontium-induced, of hard palate & gums in white rats)

(STRONTIUM, radioactive

induction of cancer of hard palate & gums in white rats)

(PALATE, neoplasms,

exper. cancer induced with radiostrontium in white rats)

EXCERPTA MEDICA Sec 7 Vol. 11/11 Pediatrics Nov 57

1999. CHERKASSKI L. A. Dept. of Pathol. Anat., Sanitary-Hyg. Med. Inst., Leningrad. *The morphological nature of the exacerbation of primary tuberculosis in children and the influence of mixed infection on this process (Russian text) VRAC. DELO 1956, 10 (1103-1104)

The author investigated the softening mechanism of caseous necrosis, the exacerbation of a tb process in the form of the necrosis of the capsule of the focus, and the importance of each of these types of exacerbation on the further development of the disease. The method used was morphological analysis and the correlation of the character of tissue changes with the presence of the pathogens. Also studied was the role of mixed infection in primary pulmonary tb in children and the significance of the common microbial flora in the exacerbation. Investigation was made of 128 deaths from tb in children, of whom 76 had had exacerbation and a mixed infection. Conclusions: there is no single mechanism in the necrotic softening process, which proceeds variously depending on conditions. The earliest phase of softening is to be seen in the appearance of tubercle bacilli and the lysis of necrotic masses. Conditions are created for the bronchogenic dissemination of the bacilli and so for the development of primary pulmonary phthisis. The necrosis of the capsule of the foci is associated with the appearance of tb bacilli, and in the tissue surrounding the focus there later arises tb inflammation with tb bacilli in

2999

the exudate. The focus will increase in size. The peripheral 'toxic' inflammation does not appear, but a tb pneumonia proper develops. In spite of large amounts of bacilli, no inflammatory process takes place in the surrounding tissue in the course of the softening of the foci of necrosis. Exacerbation of the process does not occur in mixed infection due to the common flora, which may destroy the tb focus, and may disrupt it and induce softening of the foci of necrosis of a non-specific character, but will not lead to exacerbation of the process.

Belova - Leningrad (XV, 5, 7)

CHERKASSKIY, L.A.

Lesions of the nasal mucosa in white mice in radiation sickness.
Vest.oto-rin. 18 no.3:36-42 My-Je '56. (MLRA 9:8)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta po boleznyam ukha gorla, nosa i rechi (dir. - prof. I.A.Lopotko, nauchnyy rukovoditel' deystvitel'nyy chlen AMN SSSR prof. V.I. Voychek) i patologoanatomicheskoy laboratorii (zav. - doktor meditsinskikh nauk L.V.Funshteyn) Tsentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta Ministerstva zdoravookhraneniya SSSR

(RADIATION SICKNESS, experimental,
nasal mucosa in (Rus))

(NASAL CAVITY, in various diseases,
exper. radiation sickness, mucosal changes (Rus))

LEBEDEVA, N.F.; CHERKASSKIY, L.A.

Adenomatosis of the vocal cords. Vest.oto-rin. 18 no.5:135-136
S-0 '56. (MLRA 9:11)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta po
boleznyam ukha, nosa, gorla i rechi (dir. - prof. I.A.Lopotko;
nauchnyyrukovoditel' - deystvitel'nyy chlen AMN SSSR prof. V.I.
Voyachek)

(VOCAL CORDS, neoplasms
adenomatosis)

CHERKASSKIY, L.A.

Structural characteristics of the prostate in newborn infants.
Urologiia 21 no.1:45-50 Ja-Mr '56. (MLRA 9:12)

1. Iz laboratorii eksperimental'noy onkologii onkologii (zav. - chlen-korrespondent AMN SSSR prof. L.M.Shabad) Instituta onkologii AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. A.I.Serebrov; nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. N.N.Petrov)

(PROSTATE, anat. and histol.
in newborn inf.)

(INFANTS, NEWBORN
anat. & histol. of prostate)

EXCERPTA MEDICA Sec.11 Vol.11/5 Oto-Rhino-Larngo.May55
CHERKASSKIY L.A.

761. MORPHOLOGICAL CHANGES OF THE NASAL MUCOSA OF WHITE RATS,
IN CHRONIC RADIATION SICKNESS CAUSED BY INTERNAL IRRADIA-
TION (Russian text) - Cherkassky L. A. Leningrad - VESTN. OTO-
RINO-LARING. 1957/5 (73-77) Illus. 2

Chronic radiation sickness induced in white rats by introducing minor doses of
Sr⁹⁰ and the resulting morphological changes of the nasal mucosa were studied.
The changes occurred in all animals and consisted of hyperaemia, proliferation of
glandular tubes, changes in the latter's epithelium, appearance of lymphoplasma-
cytic infiltration, necrosis of the mucous membrane and purulent exudate in the nasal
cavity. The changes developing in the nasal mucosa in radiation sickness present
a specific radiation injury and may not be characterized simply as inflammation.

(XI, 14*)

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USSR/Human and Animal Morphology - Normal and Pathological.
Pathological Anatomy

S

Abs Jour : Ref Zhur Biol., No 23, 1958, 106044

Author : Zil'berberg, S.I., Cherkasskiy, L.A.

Inst : -

Title : Morphological Changes of the Arteries and Veins of the
Brain in Hypertensive Disease

Orig Pub : Sb. nevropatol. i psikhatrii, 1957, 57, No 8, 979-985

Abstract : Dates of the microscopic examination of patients 41 to
74 years old, who died from hypertensive disease with
a cerebral syndrome, are presented. It was determined
that the lesions of the arteries and veins are essen-
tially identical and manifest themselves in dystonia
of the vessels, and diapedetic hemorrhages, protein in-
filtration of the wall of the blood vessels and formation
of dissecting aneurysms. Functional and dynamic changes
and sclerosis are more common in veins, while deposition

Card 1/2

USSR/Human and Animal Morphology - Normal and Pathological.
Pathological Anatomy.

S

Abs Jour : Ref Zhur Biol., No 23, 1958, 106044

of protein masses and hyalinization are more often observed in arteries. Thus, in hypertensive disease the whole vascular system is affected, not only the arterial. -- A.M. Vikhert.

1793

END

Card 2/2

- 36 -

CHERKASSKIY, L.A. (Leningrad, 36, Nevskiy pr., 128, kv.3)

Early stages in the development of bone sarcoma under experimental conditions [with summary in English]. Vop.onk. 4 no.1:30-38 '58.
(MIRA 11:4)

1. Iz laboratorii eksperimental'noy onkologii (zav. - chlen-korrespondent AMN SSSR prof. L.M.Shabad) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.Serebrov)
(BONE AND BONES, neoplasms,
exper. sarcoma, early stages (Rus))
(SARCOMA, EXPERIMENTAL,
bone, early stages (Rus))

CHEKASSKIY, L.A. (Leningrad, Nevskiy pr., d.128, kv.3), BARANOVA, A.G.,
(Leningrad, Mokhovaya ul., d.26, kv.25)

Roentgenographic picture of presarcomatous changes in the bones in rabbits [with summary in English]. Vop.onk. 4 no.3:284-288 '58 (MIRA 11:8)

1. Iz patologoanatomicheskoy laboratorii (nauchn.konsul'tant - chlen-korrespondent AMN SSSR prof. L.M. Shabad) Leningradskogo nauchno-issledovatel'skogo instituta po boleznyam ukha, nosa, gorla i rechi i Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Serebroy).

(SARCOMA, OSTEOGENIC, experimental,
presarcomatous lesions in rabbits, x-ray picture (Rus))

CHERKASSKIY, L.A.

Morphogenesis of tuberculous pneumonia [with summary in English].
Trudy LSGMI 41:55-66 '58 (MIRA 11:11)

(TUBERCULOSIS, PULMONARY, compl.
pneumonia, morphogenesis (Rus))
(PNEUMONIA, etiol. & pathogen.
pulm. tuberc., morphogenesis (Rus))

CHERKASSKIY, L. A., Doc Med Sci (diss) -- "On presarcomatous changes in the bones (Experimental-morphological investigation)". Leningrad, 1959. 23 pp (Min Health USSR, Central Sci Res Inst of Med Radiology), 150 copies (KL, No 25, 1959, 139)

EXCERPTA MEDICA Sec 14 Vol 13/11 Radiology Nov 59

2133. MORPHOGENETIC PROBLEMS OF OSTEOGENIC SARCOMA ARISING AFTER INTRAPERITONEAL INJECTION OF Sr^{90} (Russian text) - Cherkatsky L. A. Otorhinolaryngol. Res. Inst., Centr. Res. Inst. of Med. Radiol., Leningrad - VOPR. ONKOL, 1959, 5/2 (144-154) illus. 7

The appearance of bone sarcoma is preceded by morphological changes of bone tissue that can be divided into 2 groups: changes of 'background character' creating the possibility for malignant growth development but not closely connected with it, and presarcomatous changes resulting in the appearance of tumours. The morphological structure of presarcoma is manifold, 4 types of the latter being distinguished: foci of (abnormal) osteogenesis, atypical cell proliferation of the fibroblast type, atypical proliferation of periosteum, and giant cell growths with atypical cells. Osteogenic and periosteal sarcomas were produced in long bones and in the jaw. Some animals developed malignant tumours of the connective tissue, epithelium and haemopoietic organs.

(V, 14, 16)

CHERKASSKIY, L.A.

Changes in the epithelium of the polypi of the nasal cavity.
Vop.onk. 7 no.12:55-62 '61. (MIRA 15:1)

1. Iz patologoanatomicheskoy laboratorii (zav. - L.A. Cherkasskiy)
Leningradskogo nauchno-issledovatel'skogo instituta po boleznyam
ukha, nosam gorla i rechi (dir. - prof. N.A. Lopotko).
(NOSE--TUMORS)

BARANOVA, A.G.; CHERKASSKIY, L.A.

Clinical, X-ray and morphological characteristics of the giant cell bone tumor; based on materials from the Institute of Oncology of the Academy of Medical Sciences of the U.S.S.R. for the period from 1926 to 1960. Trudy Inst.onk.AMN SSSR no.4:39-58 (MIRA 15:9)

'62.

(BONES---TUMORS)

CHERKASSKIY, L.A.

Morphogenesis of cancer of the larynx (carcinoma in situ).
Vop.onk. 8 no.8:29-34 '62. (MIRA 15:9)

1. Iz patologoanatomicheskoy laboratorii Leningradskogo nauchno-
issledovatel'skogo instituta po boleznyam ukha, nosa, gorla i
rechi.

(LARYNX--CANCER)

BARANOVA, A.G.; CHERKASSKIY, L.A.

Giant-cell tumor of bones. Voj. onk. 8 no.12:81-92 '62.
(MIRA 17:6)

1. Iz Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen
AMN SSSR, prof. A.I. Serebrov).

CHERKASSKIY, L.A. (Leningrad, S-36, Nevskiy prospekt, d. 128, kv.3.)

Data on the morphogenesis of laryngeal cancer from a papilloma. Vop.
onk. 9 no.10:43-50 '63. (MIRA 17:12)

1. Iz patologoanatomicheskoy laboratorii (zav. - L.A.Cherkasskiy)
Leningradskogo nauchno-issledovatel'skogo instituta po boleznyam ukha,
nosa, gorla i rechi.

BARANOVA, A.G. (Leningrad, Mokhovaya ul., 26, kv.25); CHERKASSKIY, L.A.
(Leningrad, S-36, Nevskiy prospekt, 128, kv.3)

So-called "variations" of the giant cell tumor of the bones. Vop.
onk. 10 no.1:63-71 '64. (MIRA 17:11)

1. Iz rentgenovskogo otdeleniya (rav. - prof. L.M. Gol'dshteyn
[deceased]) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy
chlen AMN SSSR prof. A.I. Serebrov).